

SECTION 607 ROADSIDE SIGN SUPPORTS:

607-1 Description: The second paragraph of the Standard Specifications is revised to read:

Sign supports shall consist of breakaway, omni-directional breakaway, perforated, and U-channel sign posts. The type, size, and installation location of the sign posts will be shown on the project plans.

607-2.02 Breakaway Sign Post Shapes: of the Standard Specifications is revised to read:

Posts shall be fabricated from structural steel conforming to the requirements of ASTM A 572, Grade 50 or ASTM A 588 at the option of the contractor. Friction fuse plates and back plates for the post hinge assembly shall be fabricated from the same type structural steel selected for the sign posts.

All plate holes shall be drilled and all plate notches shall be saw cut, except that flame cutting will be permitted provided all edges are ground. Flange holes shall be drilled or sub-punched and reamed. The posts shall be saw cut for the hinge and bolted as detailed on the plans.

Omni-directional breakaway sign supports shall be in compliance with NCHRP Report 350. They shall be performance tested for crashes at a minimum of 0, 45, 75, and 90 degree impact angles. Omni-directional breakaway sign supports which specify bolt torque requirements shall not be used. All materials for the omni-directional breakaway sign supports shall be selected from the ADOT Approved Products List and shall be new.

Bolts, nuts and washers shall conform to the requirements of ASTM A 325.

Posts and plates shall be galvanized after fabrication in accordance with the requirements of ASTM A 123. Bolts, nuts and washers shall be cadmium plated in accordance with the requirements of ASTM B 766, or zinc plated in accordance with the requirements of ASTM B 633.

607-3 Construction Requirements: The first paragraph is revised to read:

Fabrication of the breakaway sign posts, stub posts and base plates shall conform to the requirements of Subsection 604-3.02. Shop drawings will be required.

The tops of the concrete foundations on which the omni-directional breakaway sign supports will be located shall be level. The contractor shall follow manufacturer's installation instructions.

Method of Measurement: of the Standard Specifications is modified to add:

Foundations for omni-directional breakaway sign support will be measured by the unit for each breakaway foundation installed complete in place. The omni-directional system used at each location shown on the project plans will consist of multiple breakaway bases.